

- 中国の自己の対象を表現します。 とれる ままちゅう かんしゅん ちゃ エー

RUTMAN, D.S.; VINCGRADON, V.; MAKRICVA, T.S.; KALLIGA, G.P.;

Improving the technology of arresnium articles by casting prestabilized 2x02 from ater suspensions. Ognoupory 26 no.7:303-302 161.

1. Pedelickly to od ogsemporny'h izdeliy (for R tean, Vinegro est Thhareta). 2. Khimike-tehinelegiste fly institut im. Merdeleyeva (for Kalliga, Kolbaseve, Shallrev). (Mirechita)

ZVYAGINTSEV, D.G., VINOGRADOVA, K.A., AGRE, N.S., PERTSOVSKAYA, A.F.

Natural (primary) fluorescence of actinomycetes. Mikrobiologiia
(MIRA 18:3)
33 no.4:631-638 J1-Ag '64.

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

VODYANITSKIY, V.A., otv. red.; DOLGOPOL'SKAYA, M.A., kand. biol. nauk, red.; VINOGRADOV, K.A., doktor biol. nauk, red.; GREZE, V.N., doktor biol. nauk, red.; IVLEV, V.S., doktor biol. nauk, red.[deceased]; KISELEVA, M.I., kand. biol. nauk, red.; SHARPILO, L.D., red.

[Benthos] Bentos. Kiev, Naukova dumka, 1965. 137 p. (MIRA 18:7)

1. Akademiya nauk SSSR. 2. Chlen-korrespondent AN Ukr.SSR (for Vodyanitskiy).

## "APPROVED FOR RELEASE: 09/01/2001

#### CIA-RDP86-00513R001859920019-7

RUBAN, N.N.; VINCGRADOVA, K.A.; ICHYUVI, T.N.; AVECTIVAN, Yu.A.

Determining small quantities of aluminum in systems containing aluminum and variables of aluminum from the systems of the

## "APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859920019-7

KOPYLOVA, Ye.A.; RUBAN, M.N.; VINOGRADOVA, K.A.

The hydrolysis of varadium oxychloride. Report no.l. Trudy Inst.
met. 1 obog. All Kazakh. SSR 12:145-150 165. (MIRA 18:10)

## "APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86

CIA-RDP86-00513R001859920019-7

ASEYEVA, 1.7.; VIRTUALOVA, K.A.; ORIOVA, G.G.

Biosynthesis of amino acids by actinonycetes isolated from solated of the Pamirs. Mikrobiologiia 34 no.1:24-31 Ja-F 165.

(MIRA 18:7)

1. Biologo-poervennyy fakulitet Moskovskogo gosudarstvennego universiteta imeni M.V. Immonosova.

VINOGRADOVA, K.A.; RUBAN, N.N.; PONOMAREV, V.D.

Solubility of aluminum chloride in titanium tetrachloride in presence of vanadium oxychloride. Izv. AN Kazakh. SSR. Ser. tekh. i khim. nauk no.2:75-82 '63. (MIRA 17:2)

VINOFRADOVIA, K.M.

PASHKOV, B.M.; KARACHEVTSEVA, V.N.; ROBUSTOV, G.V.; KHAMAGANOVA, A.V.; ANDROSOVA, A.A.; BELYAKOVA, A.G.; GENKINA, G.B.; ZATURENSKAIA, P.O.; VIMEKAYEVA, M.A.; GOL'DENBERG, M.M.; BOLDYREVA, A.M.; TURANOV, H.M., kandidat medit-sinskikh nauk, direktor; BRONSHTEYN, V.G., kandidat meditainskikh nauk, zaveduyushchiy; VINOGRADOVA, K.A., zaveduyushchaya.

Results of the treatment of syphilis in children according to the 1949 program of the Ministry of Health of USSR; preliminary communication. Vest. ven.i derm. no.2:28-34 Nr-4p '53. (NLRA 6:5)

1. Tsentral'nyy kozhno-venerologicheskiy institut (for Pashkov, Karachevtseva, Robustov, Khamaganova, Turanov). 2. Bol'nitsa imeni Korolenke (for Indrosova, Belyakova, Genkina, Zaturenskaya). 3. Vtoroy Moskovskiy vendinspanser (for Vymekayeva, Gol'denberg, Bronshteyn). 4. Pervyy vendispanser (for Boldyreva, Vinogradova). (Syphilis) (Penicillin-Therapeutic use)

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AUTHORS:

Ruban, N.N., Ponomarev, V.D., Vinogradova, K.A.

TITLE:

On the solubility of aluminum chloride in titanium tetrachloride

PERIODICAL:

Referativnyy zhurnal. Metallurgiya, no. 12, 1961, 17, abstract 120123 (Izv. AN KazSSR, Ser. metallurgii, obogashcheniya i ogneupo-

rov, 1961, no. 1 (10), 33 - 40, Kaz. summary)

TEXT: The authors studied solubility of AlCl<sub>3</sub> in TiCl<sub>4</sub> at 70, 90, 105, 120 and 127°C. It was established that at a rise of the temperature from 70 to 127°C, AlCl3 solubility in 100 g TiCl4 increased from 0.24 to 7.24 g. The dependence of the logarithm of AlCl, concentration in TiCl, (in mole parts) on the inverse value of absolute temperature, is expressed by a straight line.

G. Svodtseva

[Abstracter's note: Complete translation]

Card 1/1

RUBAN, N.N.; PONOMAREV, V.D.; VINOGRADOVA, K.A.

Solubility of iron and aluminum chlorides in titanium tetrachloride. Trudy Inst. met. i obog. AN Kazakh. SSR 6:22-29 '63. (MIRA 16:10)

TO PELEPHENING THE PERSON OF T

RUBAN, N.N.; PONOMAREV, V.D.; VINOGRADOVA, K.A., Prinimal uchastiye:

TARASENKO, V.Z., inzhener

Solubility of aluminum chloride in titanium tetrachloride. Isv.AN

Kazakh.SSR.Ser.met., obog.i ogneup no.1:33-40 '61. (MIRA 14:6)

(Aluminum chloride) (Titanium chloride)

(Solubility)

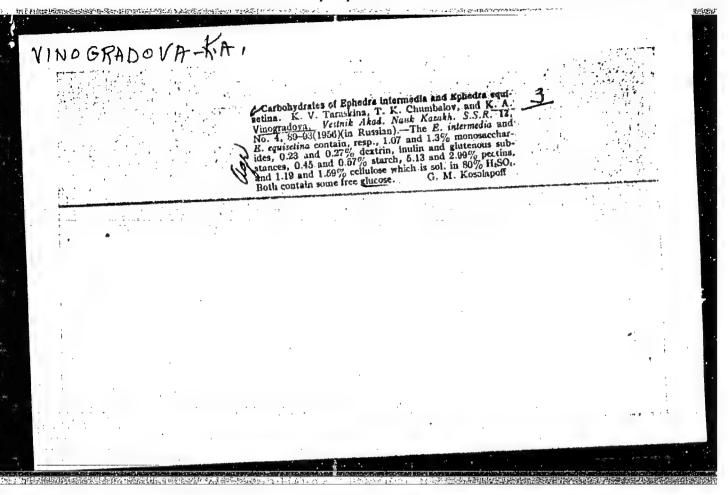
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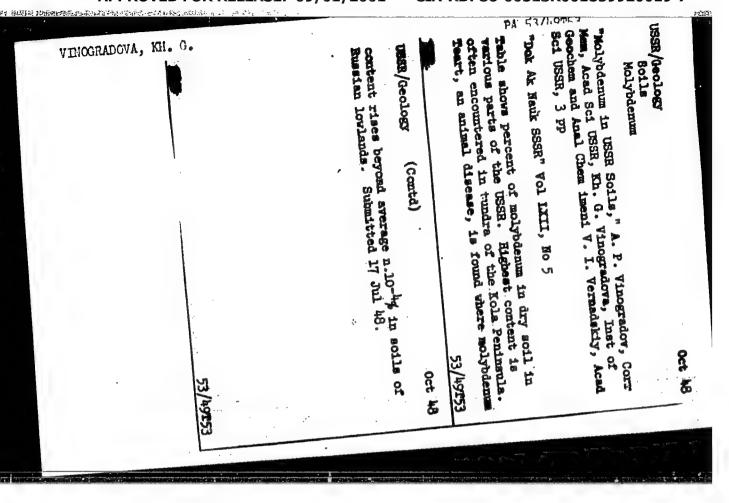
Actinomycetes of the chromogenes group. Trudy Inst. microbiol.
no.8:202-225 '60. (MIRA 14:1)

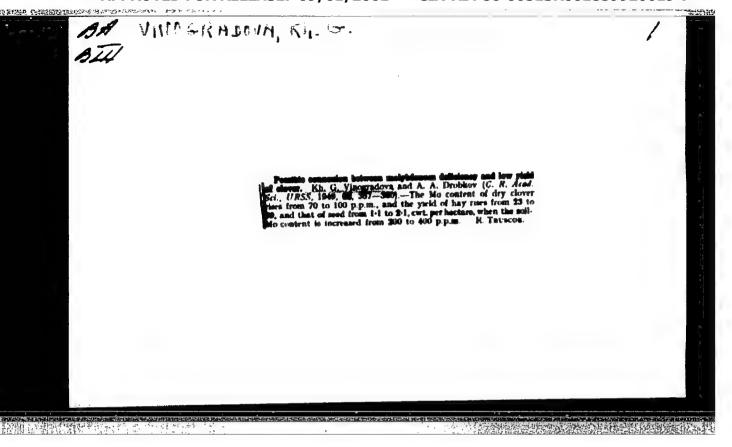
1. Moskovskiy gosudarstvennyy universitet.
(ACTINOMICETALES)

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### "APPROVED FOR RELEASE: 09/01/2001 CIA

CIA-RDP86-00513R001859920019-7

#### VINOGRADOVA, Kh. G.

"Biogeochemistry of Molybdenum," Vestnik Akademii Nauk SSSR, Vol. XX, No. 5, 1950, p. 114. Report was presented at the 1950 Annual Scientific Meeting of the Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy, Academy of Sciences, USSR.

Summary available--W-16382, 22 Jan 51

ALEKSEYEV, V.N.; VINOGRADOVA, K.G., redaktor; LUR'YE, M.S., tekhnicheskiy redaktor; POGUDKIN, P.V., tekhnicheskiy redaktor.

[Quantitative analysis] Kolichestvennyi analiz. Moskva, Gos. nauchno-tekhn. izd-vo khim. lit-ry, 1954. 474 p. (MLRA 7:12) (Chemistry, Analytical--Quantitative)

#### VINOGRADOVA, Kh.G.

法制建始指挥的连接的联络制度的共享进行的 形态 "这一

Molybdenum in plants in relation to their systematic position. Trudy Biogeokhim.lab. 10:82-93 154. (MIRA 8:7) (Plants, Effect of molybdenum on)

CIA-RDP86-00513R001859920019-7

TO THE PROPERTY OF THE PROPERT

ALEKSHYEV, Vladimir Nikolayevich; VINOGRADOVA, K.G., red.; LUR'YE, H.S., tekhn.red.

[Course in qualitative chemical semimicroenalysis] Kurs kachestvennogo khimicheskogo polumikrosnaliza. Izd. 3-e. Moskva, Gos. nauchnotekhn. izd-vo khim. lit-ry, 1958. 584 p.
(Chemistry, Analytic--Qualitative)

。 1985年的新疆的政治和共和国的企图,中国共和国的大型企业,但是自己的企业。 KATALYMOV, Mikhail Yasil'yevich; VINOGRADOVA, K.G., red.; SPERANSKAYA, A.A., tekhn.red.

[Trace elements and their role in increasing crop yields]
Mikroelementy i ikh rol' v povyshenii uroshainosti. Izd.2.
Moskva, Gos.nauchno-tekhn.izd-vo khim.lit-ry, 1960. 74 p.
(Plants, Effect of minerals on) (MIRA 13:10)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859920019-7"

L Z1721-65 EFF(m)/EFF(c)/EFF(t)/EFF(b) P-4 [3P(m)/USD/EFFI/ASD(a)-5/ ESD/AS(mp)-2/AFETR/RAES(a)/EEG(gs)/EEG(t) JO ACCESSION NR: APROALSSA

AUTHOR Vinogradova K. I.: Popov Yu.G.; Smetannikova Yu.B.; Habledov D. N.

TITLE: Bioctric properties of indice antimonide doped with different importities Asport, Third All Union Conference of Best conductor Inspende held in Rightney 16-21 September 1963)

SOURCE: AN SSSR. Izvestiya, Seriya fizicheskaya, v.28, no.6, 1984, 959-962

TOPIC TAGS: semiconductor, semiconductor research, electric properties, electric conductivity, Hall effect, temperature dependence, indium antimonide

ABSTRACT: The present study was undertaken in view of the paucity of data on the electric properties of doped indian antimonide and the location of impurity levels in such InSb crystals. The primary purpose of the investigation was to determine the position and effect of acceptor impurity levels. There were investigated primarily InSb crystals doped with In and Ca (elimination of which from InSb by zone refining is difficult) and Cu, which is a frequent contaminant. The impurities were introduced into the purified n-type indian antimony ingots by zone leveling (mmed) ataly after the participation without opening the scaled tube containing the batter when

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#### L 21721-65 ACCESSION NR: AP4041354

2

This precluded change from n-type to p-type conductivity, reported to occur as a result of some heat treatments. The measurements consisted in determining the temperature dependence of the conductivity and Hall constant in the range from 3 to 100°K. The measurements were made in helium gag in a motal cryostat with the respectatures seing determined by a Broxier served the resistor in the lower range are by a copper-consistent in the consecuple in the large range dependences are presented in the form of ourses. The cranite of every letter of the activation of are given in a table. Originary, has: 2 formulas, 2 figures and 1 table.

ABSOCIATION: Piziko-tekhnicheskiy institut im.A.F. loffe Akademii nauk 888R (Physico-technical Instituts, Austemy of Boismoss SSSR)

SUBMITTED: 00

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OTHER: 004

Card R/2

VINOGRADOVA, K.I.; GALAVANOV, V.V.; NASLEDOV, D.N.; SOLOV'YEVA, L.I.

Preduction of extremely pure InSb single crystals by means of zene melting. Fiz. tver. tela 1 ne.3:403-406 Mr 159.

(MIRA 12:5)

1. Fizike-tekhnicheskiy institut AN USSR, Leningrad. (Indium antimonide crystals)

VINOGRADOVA, K.I.; NASLEDOV, D.N.; FOPOV, Yu.G.; SMETANNIKOVA, Yu.S.

Electric properties of Indium antimonide doped with various impurities. Izv. AN SSSR. Ser. fiz. 28 no.6:959-962 Je '64. (MIRA 17:7)

1. Fiziko-takhnicheskiy institut imeni Ioffe AN SSSR.

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s/181/62/004/006/047/051 B108/B138

AUTHORS:

Vinogradova, K. I., Galavanov, V. V., and Nasledov, D. N.

TITLE

Dependence of carrier mobility on the impurity concentration in

Insb crystals

PERIODICAL: Fizika tverdogo tela, v. 4, no. 6, 1962, 1673 - 1674

TEXT: The authors studied this problem as little information has been available. Measurements were made at 77 and 300°K. The hole mobilities at both temperatures are virtually the same; they decrease with increasing at both temperatures are virtually the same; they decrease with increasing impurity concentration. Electron mobility decreases slightly with increasing impurity concentration at 77°K. At 300°K it remains constant up to 10 cm 3, but at higher concentrations it decreases and approaches the same value as at 77 K. At low temperatures mobility is chiefly determined by the scattering of electrons from holes and phonons. There are 2 figures.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. loffe AN SSSR Leningrad (Physicotechnical Institute imeni A. F. Ioffe AS USSR, Leningrad)

Card 1/2

Dependence of carrier ...

SUBMITTED: February 19, 1962

\$/181/62/004/006/047/051 B108/B138

Card 2/2

VINOGRADOVA, K.I.; GALAVANOV, V.V.; NASLEDOV, D.N.

Obtaining ultrapure InSb crystals by the zone melting method. Fiz. met. i metalloved. 16 ho.3:385-393 S '63. (MRA 16:11)

1. Fiziko-tekhnicheskiy institut imeni A.F. Ioffe.

Galvanomagnetic properties of indium antimonide doped with elements from the first and second groups, in the temperature interval 4.2 to 300°K. K. I. Vinogradova, D. N. Nasledov, Yu. G. Popov, Yu. S. Smetannikova.

Electrical properties of doped crystals of indium antimonide in a wide range of temperatures and impurity concentration. V. V. Galavanov, D. N. Nasledov, A. S. Filipchenko. (Presented by V. V. Galavanov--15 minutes).

Report presented at the 3rd National Conference on Semiconductor Compounds, Kishinev, 16-21 Sept 1963

VINOGRADOVA, K.I., GALAVANOV, V.V., NASLEDOV, D.N.

Dependence of current carrier mobility on impurity concentration in InSb crystals. Fiz. tver. tela 4 no.6:1673-1674 Je '62.

(MIRA 16:5)

1. Fiziko-tekhnicheskiy institut imeni A.F.Ioffe AN SSSR, Leningrad.

(Indium antimonide crystals--Electric properties)

VINOGRADOVA, K.I.; GALAVANOV, V.V.; NASLEDOV, D.N.

Preparation of indium antimonide of high purity by the method ofzone melting. Zhur. tekh. fiz. 27 no.9:1976-1984 \$ \$57. (MIRA 10:11)

1. Leningradskiy fiziko-tekhnicheskiy institut AN SSSR. (Indium antimonide)

NOGRAdoVA AUTHORS TITLE

Vinogradova, K.I., Galavanov, V.V., Nasledov, D.N., The Preparation of Indium Antimenide of High Purity by the

(Polucheniya sur'myanistogo indiya vysokoy stepeni chistoty Method of Zone Melting.

Zhurnal Tekhn. Fiz., 1957, Vol 27, Nr 9, pp 1976-1984, (U.S.S.R.)

PERIODICAL

ABSTRACT

The results obtained by the purification of indium antimonide according to the method of zone melting are discussed. Purification was carried out in soldered quartz tubes which were filled with argon. The liquid zone was produced by means of an electric furnace into which a copper cylinder was placedfor the purpose of maintaining a uniform temperature in the zone and a great temperature drop at the ends of the zones. The length of the liquid zone was 5 . 50 mm. The displacement velocity of the liquid zone was 0,1-1 mm. The ingot diameter was 4-7mm, its length amounted to 150-350 mm. The distribution of the admixtures according to the length of the ingot was checked by measuring Hall's constant at the temperature of liquid nitrogen. It was found that in the case of the samples under investigation the purest domain was that which was located in the center of the ingot. Samples with an admixture concentration of up to 2,5.10-3, a mobility of electrons in them of up to 400 000 at 770K and a modility of electrons in chem of appropriate about 100 000 cm<sup>2</sup>/V. sec at 300°K were obtained. The output samples had the conductivity of the p-type. After zone melting

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VINOGRADOVA, K.L.

New species of algae of the Murman Coast. Bot. mat. Otd. spor. rast. 14:91-93 Ja'61. (MIRA 17:2)

# VINOGRADOVA, K.L.

Resources of littoral algae of the Murmansk Coast. Trudy MMBI no.5:37-40 '64. (MIRA 17:4)

l. Laboratoriye gidrobiologii (zav. M.M.Kamshilov) Murmanskogo morskogo biologicheskogo instituta.

# VINOGRADOVA, K.L.

Review of works on marine green algae for 1962-1963. Bot.zhur. 49 no.11: 1668-1673 N \*64. (MIRA 18:1)

1. Botanicheskiy institut imeni V.L.Komarova AN SSSR, Leningrad.

## "APPROVED FOR RELEASE: 09/01/2001 CI

CIA-RDP86-00513R001859920019-7

VINOGRADOVA, K.L.

Distribution of Fucus spiralis L. in the Murman littoral. Bot. mat. Otd. spor. rast. 16:67-68 \*63. (MIRA 16:10)

## "APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859920019-7

## VINCGRADOVA, K, H.

"Jubilee Exhibition of Archives in the Governmental Museum of Literature on the Like and Accomplishments of Chekhov" Vest. Ak. Nauk SSSR, No. 9, 1944,

BR-52059019

VINOGRADOVA, Kh.G.; OPARIN, A.I., akademik.

Molybdemum content in plants in relation to their taxonomic position. Dokl. AN SSSR 93 no.1:163-166 N '53. (MLRA 6:10)

1. Akademiya nauk SSSR (for Oparin). 2. Institut geokhimii i analiticheskoy khimii im. V.I.Vernadskogo Akademii nauk SSSR (for Vinogradova).

(Plants--Chemical analysis) (Botany--Classification)

(Molybdemim organic compounds)

# Ulganda; economy and foreign trade. Vnesh. torg. 43 no.7:30-35 163. (MIRA 16:8) (Uganda--Economic conditions) (Uganda--Commerce)

SALOVA, A.S.; VINOGRADOVA, L.A.

Quantitative determination of impurities in diphenylol propane by paper chromatography. Zhur. anal. khim. 18 no.9:1128-1130 S \*63. (MIRA 16:11)

1. State Scientific-Research Institute of Lacquer and  $^{\rm P}$ aint Industry, Moscow.

TO THE POPULATION WHEN PROTECTION WITH MEN PROPERTY OF THE PRO

VIHOGRADOVA, Lyndmila Alekseyavna; CHERNOV, Ye., red.; KRECHETOV, A., tekhn.red.

[A year has passed] Proshel odin god. Moskva, Mosk.rabochii, 1960. 63 p. (MIRA 13:12)

1. Rukovoditel brigady kommunisticheskogo truda 1-go Moskovskogo chasovogo zavoda imani Kirova (for Vinogradova).

(Moscow---Clockmaking and watchmaking)

(Socialist competition)

VINOGRADOVA, L.F.

3/138/67/000/003/003/003 A051/A126

1(970)

Frenkel', R. Sh., Kuz'minskiy, A. S., Pel'dshteyn, L. S., Yhanin, S. Ye., Vinogradova, L. F.

TEXT:

The effect of ingredients in rubber mixes on the structuralizing of butadiene-nitrile rubber

PERIODICAL: Kauchuk i rezina, no. 3, 1962, 10 - 12

TEXT: An investigation was conducted to determine the effect of ingredients other than altax, for example (in the absence of sulfur), on the process of thermal structuralizing in synthetic rubbers. Butadiene-mitrile rubber \$\( \CKi \) \ (\sigma \) (commercial) was used in the experiments in an air medium. The thermoschanical method was used to determine the initial temperature of the mixture structuralizing. Accelerators and activators of vulcanization have a significant effect on the rate of thermal structuralizing. The accelerators increase the rate of structuralizing and lower the initial temperature. At the addition of zinc oxide into the system rubber-altax decreases the initial temperature and increases the rate of structuralizing. Thus, it is thought that the zinc oxide serves as a catalyst in the process of thermal decomposition. Data on the reaction kinetics with

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The effect of ...

iedine prove this supposition. The following conclusions are drive; Certain fillers (gaseous and thermal carbon black) and secelerators (captax) increase the tendency to structuralizing of the mixtures based on butadiene-nitrile rubber. Those filled with gaseous carbon black, containing altax or captax, are particularly prone to structuralizing. Zinc oxide increases the structuralizing action of captax in mixtures with gaseous carbon black. In the case of altax, the zinc oxide speeds up the structuralizing process both in filled and non-filled mixtures. The zinc oxide increases the ratio of the thermal decomposition of altax to free radicals. There are 3 figures, 2 tables and 5 Soviet-bloc references.

ASSOCIATIONS: Volzhakiy filial Nauchno-issledovatel'skogo instituta rezinovey promyshlennosti i Nauchno-issledovatel'skiy institut rezinovey promyshlennosti (Volga Branch of the Scientific Research Institute of the Rubber Industry and the Scientific Research Institute of the Rubber Industry)

X

Card 2/2

FRENKEL', R.Sh.; KUZ'MINSKIY, A.S.; FEL'DSHTEYN, L.S.; KHANIN, S.Ye.; VINCGRADOVA, L.F.

Effect of the ingredients of rubber mixtures on the structure formation of butadiene-nitrile rubber. Kauch.i rez. 21 no.3:10-12 Mr '62. (MIRA 15:4)

1. Volzhskiy filial Nauchno-issledovatel'skogo instituta rezinovoy promyshlennosti i Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti.

(Rubber, Synthetic--Testing)

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L 18557-63 EMP(j)/EWT(m)/BDS AFFTC/ASD PC-L RM/MAY

ACCESSION NR: AP3004260

s/0138/63/000/007/0046/0048

AUTHORS: Frenkel', R. Sh.; Filippova, T. I., Vinogradova, L. F.

62

TITLE: The effect on physical and mechanical indices of vulcanizates, brought on by thermal treatment of rubber mixtures with kaolin 5

SOURCE: Kauchuk i rezina, no. 7, 1963, 46-48

TOPIC TAGS: butadiene-styrene rubber, thermal treatment, kaolin, vulcanizate

ABSTRACT: Thermal treatment of butadiene-styrene rubbers with various amounts of kaolin, using sulfur and p-quinonedioxime as activators, was conducted at 143C for periods up to 40 minutes. This was followed by milling on cold mixing rolls and a second vulcanization in a press. Such a procedure causes a compound containing 60% kaolin to yield a vulcanizate of 40-50% higher strength, which is reached during the first two minutes of thermal treatment. At the Armavir plant for rubber soles additional experiments were conducted with three types of synthetic rubbers to which were added from 170 to 200 parts of kaolin. After compounding on mixing rolls, the products were warmed for 15 minutes at 150C, followed by 2-3 minutes of roll-milling and subsequent vulcanization. It was

Card 1/2

**4 18557-63** 

ACCESSION NR: AP3004260

found that the resistance of the vulcanizates to abrasion increased by 20-25%, while the tolerance to 75%-stretchings at 250 cycles per minute increased three-fold and elevenfold, with the plasticity remaining unchanged. In another procedure the initial operation is conducted in a mixer heated to 100-110C. Orig. art. has: 1 chart and 2 tables.

ASSOCIATION: Volzhskiy filial nauchno-issledovatel'skogo instituta rezinovoy promy\*shlennosti (Volga Division of the Scientific Research Institute of Rubber Industry)

SUBMITTED: 00

DATE ACQ: 21Aug63

ENCL: 00

SUB CODE: MA

NO REF SOV: 002

OTHER: 002

Card 2/2

KHARLAMOV, I.P., kand.tekhn.nauk; MOROZ, I.I., kand.tekhn.nauk; VINOGRADOVA, L.G.

Basic trends in the development of electrochemical metal cutting in capitalist countries. Biul.tekh.-ekon.inform.Gos. nauch.-issl.inst.nauch.i tekh.inform. no.5:92-97 '62.

(MIRA 15:7)

(Electric metal cutting)

VINOGRADOVA, L.I.; PTITSYN, B.V.

Determination of instability constants of potassium trioxalatoferrate from the interaction of an iron salt with silver oxalate. Zhur.neorg.khim. 1 no.3:432-437 Mr '56. (MLRA 9:10)

(Potassium oxalatoferrate (III))

USSR/Inorganic Chemistry - Complex Compounds

c.

Abs Jour

: Referat Zhur - Khimiya, No 2, 1957, 4100

Author

Title

Vicomedous L.L. Ptitsyn, B.V. Determination of Instability Constants of Trioxalato-

ferriate of Potassium by the Method of Displaced

Equilibrium

Orig Pub

: Zh. neorgan. khimii, 1956, 1, No 3, 427-431

Abstract

: Determination of instability constants (K) of trioxalatoferriate of potassium (I) is based on utilization of the previously described method (RZhKhim, 1955, 45708) of study of the equilibrium of the complex under investigation with ions that displace the equilibrium of secondary dissociation of complex particle due to formation of little soluble or little dissociated compounds. To study the stability of I Ag + and H + are utilized as such ions. Determined were the values of the thermodynamic constants:  $K_1 = 2.3 \cdot 10^{-5}$ ;  $K(total) = 2.1 \cdot 10^{-5}$ 

Card 1/2

- 17 -

USSR/Inorganic Chemistry - Complex Compounds

C.

Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 4100

10<sup>-20</sup> and  $K_2 \cdot K_3 = 9.1 \cdot 10^{-16}$ . Solubility products of  $Ag_2C_2O_{\parallel}$  at different ionic forces of the solution, — needed for the calculations of K, were determined on the basis of the results of measurements of the solubility of  $Ag_2C_2O_{\parallel}$  in solutions of KNO<sub>3</sub>. From the results

of a study of the interaction of  $\underline{I}$  and HCl, it was found

that  $K_1 = 8.5 \cdot 10^{-5}$ .  $K_2$  and  $K_3$  were calculated as being,

respectively, 3.1  $\cdot$  10<sup>-5</sup> and 1.8  $\cdot$  10<sup>-5</sup>. All the values of K are reduced to 25  $\pm$  0.1°. In the opinion of the authors the described method can be applied to the determination of K of complex oxalates in which  $K_1$  is not less than 6.4  $\cdot$  10<sup>-5</sup>.

Card 2/2

- 18 -

 VINCE KADOVI. I

USSR/Inorganic Chemistry - Complex Compounds

C.

Abs Jour

: Referat Zhur - Khimiya, No 2, 1957, 4101

Author

Title

: Vinogradova, L.I., Ptitsyn, B.V. : Determination of Instability Constants of Trioxalatoferriate of Potassium by Interaction of Iron Salt with

Silver Oxalate

Orig Pub

: Zh. neorgan. khimii, 1956, 1, No 3, 432-437

Abstract

From comparison of stability constants (K) of ferrioxalate complexes determined on the basis of a study of equilibrium of the system  $Fe(NO_3)_3$  (I) -  $Ag_2C_2O_4$  (II).

with the values of K determined by the method of displaced equilibrium (see preceding abstract), it follows that as a result of interaction between I and II there is formed predominantly the complex  $[Fe(C_2O_4)_3]^3$ .

Average value of its total K at 25  $\pm$  0.1° is 2.3 . 10<sup>-20</sup>

Card 1/3

- 19 -

USSR/Inorganic Chemistry Complex Complex Complex Complex CIA-RDP86-00513R001859920019-7"

Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 4101

> and is in good accord with the value obtained by the method of displaced equilibrium. Approximate value of the product K1 .K1 .K2, determined from the results of determinations of solubility of II in solutions of Fe<sub>2</sub>(C<sub>2</sub>O<sub>4</sub>)<sub>3</sub>, is 9.1 . 10-18. From this value and also

from the known values of  $K_1$  and K(total) were computed  $K_2$ 

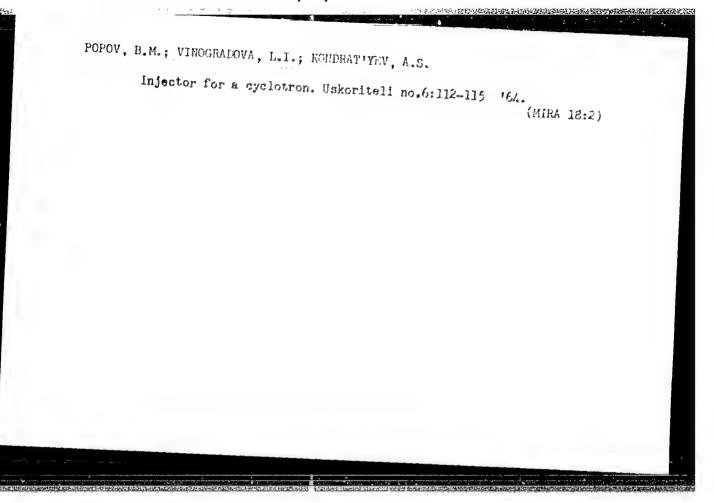
and  $K_3$ , equal, respectively, to 1.7  $\cdot$  10<sup>-8</sup> and 5.3  $\cdot$  10<sup>-8</sup>. Calculation of the quantity  $K_1 \cdot K_2 \cdot K_3$  was carried out on the basis of the following dissociation scheme: Fe<sub>2</sub>(C<sub>2</sub>O<sub>4</sub>)<sub>3</sub>  $\leftarrow$  FeC<sub>2</sub>O<sub>4</sub>  $\nearrow$  +  $\leftarrow$  Fe(C<sub>2</sub>O<sub>4</sub>)<sub>2</sub>  $\nearrow$  ; this scheme

was adopted on the basis of the results of determinations of electric conductivity and the cryoscopic determination of molecular weight of Fe<sub>2</sub>(C<sub>2</sub>O<sub>4</sub>)<sub>3</sub> in aqueous solution.

VINOKUROVA, L.1.; KONLORSKIY, Ye.1.

Effect of hydrostatic pressure on the degree of magnetization of rare earth metals. Izv. AN SSSR. Ser. fiz. 28 no. 3:537-539 Mr \*164.

(MIRA 17:5)



NASTYUKHA, A.I.; POPOV, B.M.; VINOGRADOVA, L.I.

Ion injector for a cylotron and phasotron. Fiz. elek. no.1; (MIRA 17:1)

5(4),21(1)

以上,所有所有的对象的企业的企业,在1900年的企业。在1900年的企业的企业。

AUTHORS: Tekster, Ye. H., Vinogradova, L. I., SOV/78-4-4-10/44

Ptitsyn, B. V.

TITLE: The Determination of the Stability Constants of the Complex

Oxalates of Magnesium and Uranyl Using an Oxalate-silver Electrode (Opredeleniye konstant nestoykosti kompleksnykh oksalatov magniya i uranila s pomoshch'yu oksalatno-serebrya-

nogo elektroda)

PERIODICAL: Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 4, pp 764-768

(USSR)

ABSTRACT: The stability constants of the complexes  $K_2[Mg(c_2O_4)_2]$  and

K<sub>6</sub>[(UO<sub>2</sub>)<sub>2</sub>(C<sub>2</sub>O<sub>4</sub>)<sub>5</sub>] were determined using an oxalate-silver electrode. Solutions of various concentrations of both complexes were saturated with silver oxalate at 25°, and the potential of the oxalate-silver electrode was measured in these solutions in order to determine the equilibrium

these solutions in order to determine the equilibrium activity of the C2042- ion. The results of these measurements

are given in a table. The integral stability constant for

Card 1/4 the magnesium complex  $K_2[Mg(C_2O_4)_2]$  was calculated:

 The Determination of the Stability Constants of the SOV/78-4-4-10/44 Complex Oxalates of Magnesium and Uranyl Using an Oxalate-silver Flectrode

$$K_2[Mg(c_2o_4)_2]$$
I (ion strength)

 $0.89.10^{-1}$ 
 $0.49.10^{-1}$ 
 $0.31.10^{-1}$ 
 $0.31.10^{-1}$ 
 $0.31.10^{-1}$ 
 $0.31.10^{-1}$ 
 $0.31.10^{-1}$ 
 $0.31.10^{-1}$ 

The measured results required for the calculations are summarized in a table. The dissociation of the complex ion

rized in a table. The dissociation of the complex ion
$$\left[ (UO_2)_2 (C_2O_4)_5 \right]^{6-} \text{ occurs according to the following scheme:}$$

$$\left[ (UO_2)_2 (C_2O_4)_5 \right]^{6-} = C_2O_4^{2-} + 2 \left[ UO_2 (C_2O_4)_2 \right]^{2-}$$
(1)

$$2\left[u_{0_{2}}(c_{2}o_{4})_{2}\right]^{2-} \Longrightarrow c_{2}o_{4}^{2-} + \left[(u_{0_{2}})_{2}(c_{2}o_{4})_{3}\right]^{2-}$$
 (2)

$$[(vo_2)_2(c_2o_4)_3^2]^2 \longrightarrow c_2o_4^2 + 2vo_2c_2o_4$$
 (3)

$$200_{2}c_{2}o_{4} = 200_{2}^{2+} + 2c_{2}o_{4}^{2-}$$
 (5)

Card 2/4 together: 
$$[(\overline{u0}_2)_2(\overline{c}_2\overline{o}_4)_5]^{6-} \rightleftharpoons 5\overline{c}_2\overline{o}_4^{2-} + 2\overline{u}\overline{o}_2^{2+}$$
 (6)

The Determination of the Stability Constants of the SOV/78-4-4-10/44 Complex Oxalates of Magnesium and Uranyl Using an Oxalate-silver Electrode

It is assumed that the complex ion  $[(UO_2)_2(C_2O_4)_4]^{4-}$  exists in the solution. The stability constants  $K_1 \cdot K_2$  and  $K_2$  for  $K_6[(UO_2)_2(C_2O_4)_5]$  were calculated as follows:  $K_6[(UO_2)_2(C_2O_4)_5]$ 

I (ion strength) 0.69.10-1 0.22.10-1 0.08.10-1

The data required for the calculations are given in a table. A further table gives the results of the calculation of K2. There are 4 tables and 7 references, 3 of which are Soviet.

Card 3/4

。 1. 当然中华的,我们也是特别的自己的对象,但是自己的人们是不是什么的人,就是是一个人们的人们的人们的人们的人们的人们的人们们就是一个人们的人们们们们们们们们

The Determination of the Stability Constants of the SOV/78 4 4 10/44 Complex Oxalates of Magnesium and Uranyl Using an Oxalate-silver Electrode

ASSOCIATION:

Kafedra obshchey i analiticheskoy khimii Leningradskogo tekhnologicheskogo instituta pishchevoy promyshlennosti (Chair of General and Analytical Chemistry of the Leningrad Technological Institute of the Foodstuffs Industry) and Kafedra tekhnologii iskusstvennykh radioaktivnykh veshchestv Leningralakogo tekhnologicheskogo instituta im. Lensoveta (Chair if the Technology of Artificial Radioactive Materials of the Leningrad Technological Institute imeri Lensovet)

SUBMITTED:

December 30, 1957

Card 4/4

C. 自用和推翻的特殊的证据的证据,这种是由的证据的证明。

PTITSYN, B.V.; TEKSTER, Ye.M.; VINGGRADOVA, L.I.; MORACHEVSKAYA, M.D.

Using the oxalate-silver electrode for determining the instability constants of complex oxalates. Zhur.neorg.khim. 2 no.9:2025-2030
S 157. (MIRA 10:12)

1. Leningradskiy tekhnologicheskiy institut pishchevoy promyshlennosti, Kafedra obshchey i analiticheskoy khimii.

(Electrodes) (Oxalates)

- CHEROLOGICA PROGRAMMA CONTRACTOR CONTRACTO

TEKSTER, Ye.N.; VINOGRADOVA, L.I.; PTITSYN, B.V.

Determining instability constants of magnesium and uranyl oxalate complexes by means of an exalate-silver electrode. Zhur. neorg. khim. 4 no.4:764-768 Ap '59. (MIRA 12:5)

l. Kafedra obshchey i analiticheskoy khimii Leningradskege tekhnologicheskoge instituta pishchevoy promyshlennesti i Kafedra tekhnologii iskusstvennykh radicaktivnykh veshchestv Leningradskogo tekhnologicheskogo instituta im. Lensoveta. (Magnesium compeunds) (Uranyl compeunds)

VINOGRADOVA, L.I.; PTITSYN, B.V.

Determination of instability constants for potassium trioxalatoferrate by means of displaced equilibrium. Zhur.neorg. khim. 1 no.3:427-431 Mr '56. (MLRA 9:10)

(Potassium oxalatoferrate (III))

PTITSYN, B.V.; VINCGRADOVA, L.I.

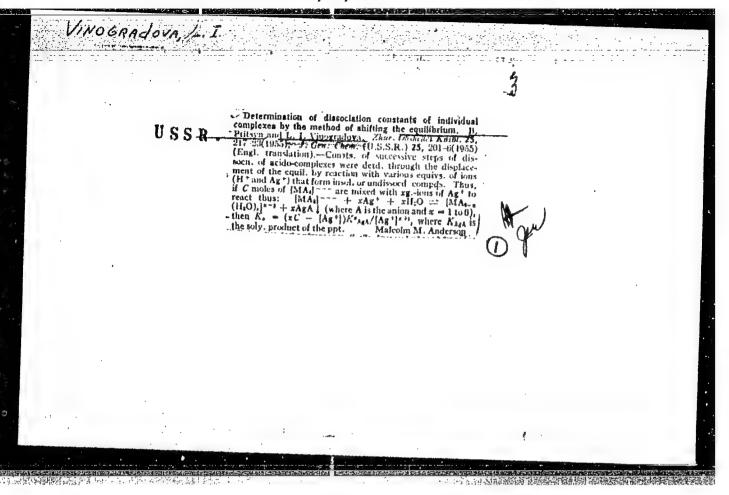
Determination of instability constants of individual complexes by the method of equilibrium shift. Zhur.ob.khim. 25 no.2:217-223 F

(Compounds, Complex)

VINCGIADOVA, L.I.

VINCERADOVA, L.I. "Determination of the installility Constants of Complex Compounds by Displacing the Equilibrium of Recombing Disconence of the Individual Complex." Min Higher Education USSE. Leningra Corder of Labor Red Panner Technological Inst imeni Leningrad Soviet. Leningrad, 1956. (Dissertation for the Degree of Candidate in Chemical Science)

So: Knizhnaya Letopisi, No. 18, 1956.



PTITSYN, B.V.; VINOGRADOVA, L.I.; VASIL'YEVA, L.L.; Prinimala uchastiye:

Use of a silver citrate electrode for the determination of instability constants of complex citrates. Zhur.neorg.khim. 7 no.5:1009-1011 My '62. (MIRA 15:7) (Citrates) (Silver compounds) (Electromotive force)

VINOGRADOVA, L.I.

Plugs of porolon. Lab. delo no.3:187-188 165.

1. Kafedra biokhimii i mikrobiologii (rukovoditel! - dotsent A.A. Margo) Petrozavodskogo gosudarstvennogo universiteta.

PTITSYN, B.V. [deceased]; VINOGRADOVA, L.I.; MAKSIMYUK, Ye.A.

Use of silver oxalate electrode for determining the instability constants of an iron oxalate complex. Zhur.neorg.khim. 10 no.8s 1929-1930 Ag '65. (MIRA 19:1)

1. 1-y Leningradskiy meditsinskiy institut imeni I.P.Pavlova, kafedra neorganicheskoy khimii, i Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR.

PTITSYN, B.V. [deceased]; VINOGRADOVA, L.I.; MAKSIMYUK, Ye.A.

Oxidation of Cr3+ and Fe3+ complex oxalates by potassium -permanganates. Zhur.neorg.khim. 10 no.11:2493-2495 N 65.

(MIRA 18:12)

1. Submitted April 11, 1964.

PTITSYN, B.V. [deceased]; VINGGRADOVA, L.I.; MAKSIMYUK, Ye.A.

Potentiometric titration of complex ions with ammonium vanadate. Zhur.neorg.khim. 10 no.11:2496-2498 N '65.

(MIRA 18:12)

l. Kafedra neorganicheskoy khimii I Leningradskogo meditsinskogo instituta imeni I.P.Pavlova i Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR. Submitted April 11, 1964.

MINASHINA, N.G.; Prinimali uchastiye: TURSINA, T.V.; VINOGRADOVA, L.K.

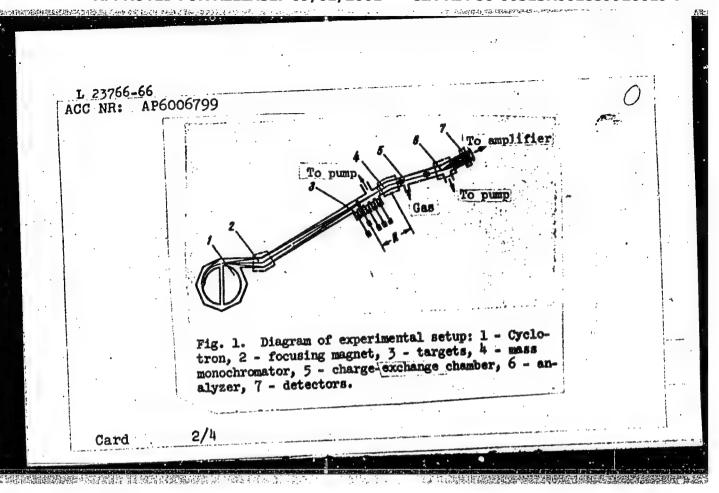
Jalinization and the necessity for the improvement of the soils irrigated in the past in the zone of the Karakum Canal. Pochvovedents no.2:9-21 F '64. (MIRA 17:3)

1. Pochvennyy institut imeni V.V.Dokuchayeva AN SSSR.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859920019-7"

THE BIBLE BEET TO A PROPERTY OF THE STATE O

	L 23766-66 EWT(1)/EWT(m) AT/JG/JD 55
	AUTHORS: Dmitriyev, I. S.; Vinogradova, L. I.; Nikolayev, V. S.,
	enga Salantific Research Institute of Nuclear Physics, Moscow State
-	Moskovskogo gosudarstvaniskiy inzhenerno-fizicheskiy institut
	TITLE: Autoionization of fast lithium-like nitrogen and oxygen 10.13
	SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki. Fisiki Source: Zhurnal eksperimental noy i teoreticheskoy fiziki.
	TOPIC TAGS: nitrogen, oxygen, ionization cross section, electron
	ABSTRACT: The authors describe the results of experiments set up to observe the increased probability of electron loss by fast ions passobserve the increased probability of electron loss by fast ions passobserve the increased probability of electron loss by fast ions passobserve the increased probability of electron loss by fast ions passobserve the increased probability of electron loss by fast ions passobserve the increased probability of electron loss by fast ions passobserve the increased probability of electron loss by fast ions passobserve the increased probability of electron loss by fast ions passobserve the increased probability of electron loss by fast ions passobserve the increased probability of electron loss by fast ions passobserve the increased probability of electron loss by fast ions passobserve the increased probability of electron loss by fast ions passobserve the increased probability of electron loss by fast ions passobserve the increased probability of electron loss by fast ions passobserve the increased probability of electron loss by fast ions accelerated ing through a medium.
	Card 1/4



 L 23766-66

ACC NR: AP6006799

in a 72-cm cyclotron were focused at a distance of 8 meters from the cyclotron (Fig. 1). The targets were celluloid films placed at dif-ferent locations on the path of the beam near the focus. Ions with different charges were produced after passage of the beam through the target. Ions of given charge were guided by means of a magnetic mass monochromator into a charge exchange chamber where they were converted into ions of different charge by collision with the gas atoms. A magnetic analyzer, described by the authors elsewhere (ZhETF v. 40, 989, 1961), was used to determine the charge composition of the ions leaving the charge exchange chamber. The experiment consisted of determining the relative number of nitrogen ions (with charges 2 -- 5) and oxygen ions (charges 3 -- 5) whose charge increased by unity in the charge exchange chamber, for different distances between the target and the center of the mass-monochromator. For most ions the relative change in the charge was independent of the distance, except in the case of  $N^{+4}$  and  $O^{+5}$ , where the relative number of the  $N^{+5}$  and 0<sup>+6</sup> ions increased appreciably with decreasing distance. It is shown that this increase cannot be attributed to an increase in the electron -loss cross sections but must be ascribed to autoionization of

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N <sup>+4</sup> are for	and 0 <sup>+5</sup> . given. s	Vario	us experi hors than the resu	mental reak <u>S. Ye.</u>	asons for t Kupriyanov g. art. has	his interpand G. A. : 2 figure	Askar'yan es and 1
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SUPPLEMENTAL PROPERTY OF THE P L 36124-66 EWT(1) IJP(c)
ACC NR. AP601880 3 SO AT SOURCE CODE: AUTHOR: Dmitriyev, I. S.; Nikolayev, V. S.; Teplova, Ya. A.; UR/0056/66/050/1252/1259 Popov, B. M.; Vinogradova, L. I. ORG: Institute of Nuclear Physics, Moscow State University (Institut 115 yadernoy fiziki Moskovskogo gosudarstvennogo universiteta) TITLE: Experimental investigation of the effective cross sections for destruction and formation of fast negative ions in atomic collisions Zh eksper i teor fiz, v. 50, no. 5, 1966, 1252-1259 TOPIC TAGS: capture cross section, negative ion, cyclotron, electron 1088, atomic structure ABSTRACT: The effective cross sections of loss of one, two, or three electrons in helium, nitrogen, or argon have been measured for negative carbon, nitrogen, and oxygen ions produced as a result of a charge exchange of positive ions accelerated in a 72-cm cyclotron to a velocity of passes. The cross section of simultaneous loss of two Card 1/2

L 36124-66

AP6018803 ACC NR

electrons by negative ions is -50-70% of the cross section of loss of a single electron. Comparison of the results obtained with the known cross sections of electron loss by other negative or positive ions shows that the specificity of negative ions, expressed in the weak coupling of the outer electron with the ion frame, does not appreciably affect the interaction between the negative ions and the given substance at a velocity ?=2.6 x 100 cm/sec. Data on the formation cross sections of negative ions as a result of capture of two electrons by positive ions or capture of an electron by neutral atoms have been obtained for carbon and oxygen. Equilibrium values have been obtained for the fraction of negative carbon or oxygen ions in a been obtained for the fraction of negative carbon or oxygen. been obtained for the fraction of negative carbon of oxygen folia to be been passing through a sufficiently thick layer of a substance (O-1). Maximal values of O-1 are obtained in media in which the formation cross sections of negative ions at a given velocity, attain their cross sections of negative ions at a given velocity, attain their maxima. The authors thank the cyclotron team headed by Yu. P. Divnomaxima. gortsey and A. S. Kondrat' yey, as well as Yu. Druzhinin and Y. Kalit for technical support of the cyclotron and experimental equipment. Orig. art. has: 7 figures and 1 table. [Based on authors' abstract]

ORIG REF: 013/ OTH REF: SUBM DATE: 29Dec65/ SUB CODE: 20/

Cord 2/2 11/2

8/0191/64/000/009/0018/0020

ACCESSION NR: AP4045018

AUTHOR: Vinogradova, L. M., Korolev, A. Ya., Davy\*dov, P. V., Kuchenkova, R. V.

TITLE: Selection and application of organosilicon liquids for decreasing the adhesion of

plastics to solid surfaces

SOURCE: Plasticheskiye massy\*, no. 9, 1964, 18-20

TOPIC TAGS: organosilicon, molding, antiadhesion film, polyethylhydrosiloxane, polymethylhydrosiloxane, plastic adhesion, polydimethylsiloxane

ABSTRACT: The effect of the nature and composition of organosilicon solutions and of the molding conditions of thin films on their effectiveness in decreasing adhesion of polymers to hard surfaces was studied. Liquid polymethyl- and polyethyl-hydrosiloxane and polydimethylsiloxane with a varying content of hydroxyl groups were investigated. The effect on the adhesive properties of treatment of a silicate glass surface with polymethyl-hydrosiloxane solutions and the effect of the treatment of a steel surface with a 5% polyhydrosiloxane solution in benzine were investigated and discussed on the basis of the treatment of a steel substantially. It was found tabulated data. The experimental data for both tests agreed substantially. It was found that adhesion to polar compounds can be completely eliminated by surface treatment with polyethylhydrosiloxane solutions in benzine or with aqueous emulsions of this liquid.

ACCESSION NR: AP 4045018

During hardening of films from polydimethylsiloxane solutions, which contain 2.7% hydroxyl groups in the macromolecule, on the surface of steel, either at 200C for two hours or even in the presence of a catalyst (tin diethyldicaprylate) at room temperature for 48 hours, the resistance to peeling decreased from 412 kgs/cm2 (control sample) to 16-20 kgs/cm<sup>2</sup> (modified sample). Polydimethylsiloxane without hydroxyl groups affects adhesion to the steel only slightly, even at a hardening temperature of 200C. Thin layers of the investigated organosilicon solutions with active functional groups are retained strongly on steel or glass surfaces. They are not removed even by prolonged extraction of the sample with boiling (80C) benzine, and retain their anti-adhesion properties at the level found before extraction. These anti-adhesive agents increase the molding performance and can also be used advantageously for molding heat-stable rubbers. The organosilicon compounds, by forming very thin films on the walls of the molds, facilitate the removal of the plastic moldings from the mold, ensure a smooth surface and protect the metal molds against corrosion. In addition to thermal stability, their chemical inertness toward the material of the molds is another advantage. "The tests on PMS-31 (polymethylhydrosiloxane) were carried out with the cooperation of A. A. Moiseyev, V.V. Pavlov, V.P., Terebenin and V.P. Frolov". Orig. art. has: 3 tables.

ASSOCIATION: None

ACCESSION NR: AP4045018

SUBMITTED: 00

ENCL: 00

SUB CODE: MT

NO REF SOV:

OTHER: 000

Card

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859920019-7"

THE PROOF THE PROPERTY OF THE

## VINOGRADOVA, L.M., assistent

Diagnosis and clinical espects of lead intoxication. Zdrav.Belor. 5 no.12:37-38 D 159. (MIRA 13:4)

 Iz kafedry gospital noy terapii Minskogo meditsinskogo instituta (zaveduyushchiy kafedroy - prof. G.Kh. Dovgyallo). (LEAD POISONING)

VINOGRADOVA, L. F.

"Comparative Investigation of the Kinetics of Hydrolysis and of the Properties of Galactan and Cellulose." Min Higher Education USSR, Moscow Textile Inst, Moscow, 1953 (Dissertation for the Degree of Candidate of Biological Sciences)

SO: Knizhnaya Letopis', Ho.32, 6 Aug 55

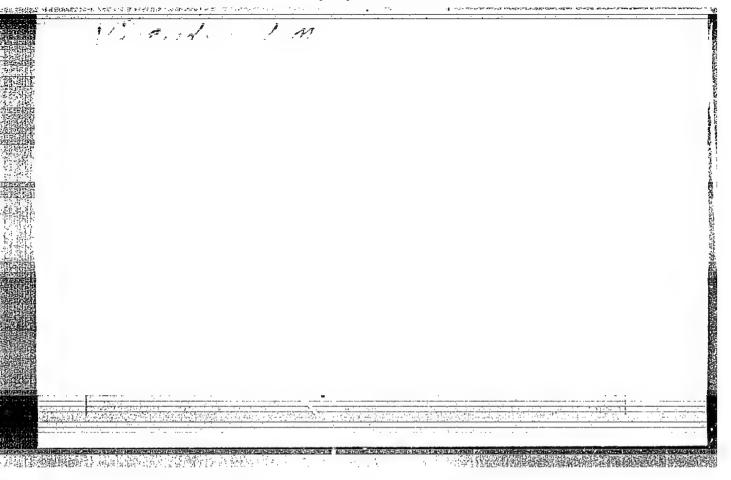
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KONKIN, A.A.; BUYANOVA, V.K.; VINOGRADOVA, L.M.; ROGOVIN, Z.A. Effect of the composition and structure of monoses and aglucons on

the resistance of glucosides to the action of acids. Soob.e nauch. rab.chl.VKHO no.3:1-5 '53. (MIRA 10:10) (Glucosides)

(Hydrolysis)

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VINOGRADOVA, L.M., kandidat tekhnicheskikh nauk; KOROLEV, A.Ya., kandidat Khimicheskikh nauk; STAROSTYNKO, N.F., inzhener-mayor.

Improve visibility when flying in rain. Vest. Word. F1. 39 no.4: 73-74 Ap '57. (MLRA 10:9)

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Vinogradova, L.M., Korlev, A. Ya.

TITLE:

AUTHORS:

Water repellents for silicate glasses

PERIODICAL:

Zhurnal prikladnov khimii, v. 34, no 4,1961, 743 - 750

Various monomer and polymer organosilicon compounds were tested in the present work as water repellents for glass surfaces. Special attention was paid to the resistance and viability of the water repellent film on the glass surface during longlasting effect of water. The present investigations demonstrated that in addition to the wetting angle the durability of the film in terms of its resistance to sprinkling is decisive in establishing the suitability of a compound as water repellent. A selection of water repellents for silicate glasses was important for various purposes, as, for instance, for moisture-protecting coatings of optical glasses, improvement of transparency for glasses in air- or sea-transport, increase in insulation properties etc. Literature data related to the use of organosilicons as water repellents indicate that some of these compounds contain active functional groups which react with a surface containing hydroxyl groups or adsorbed water molecules, forming thus thin organosilicon

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Water repellents for silicate glasses

films. The latter are chemical compounds on the surface with high physico-chemical properties. For the present investigations special devices were constructed: a laboratory box for the sprinkling test, a device containing a horizontal microscope for measuring the wetting angle and a device for determining the angle at which water begins to roll off the prepared surface. In the sprinkling test box a constant water spray was falling on the investigated glass surface, which was inclined in a 75° angle to the level. The "efficiency" of the applied water-repellent was estimated by measuring the time until half of the prepared surface loses the water-repellent property. The wetting angle was determined by measuring the size of a drop of bi-distilled water placed on the impregnated glass surface, and calculating the angle  $\Theta$  of wetting from tg  $\Theta/2 = 2h/d$  (h - height of drop, d diameter). For measuring the critical angle at which a water drop rols off the prepared surface a device was used with a horizontal plate which was gradually inclined by means of a flywheel and the inclination was controlled on a dial. The weight of the used drop was constant (0.03 g). The following preparation procedure of the glass surface before testing was carried out. The glass was thoroughly cleaned, dried at 100°C and polymer organosilicons (silicones) were applied imediately after drying. Before application of the monomer organosilicons (silanes), which are able to hydrolyze and condensate, the cleaned and dried Card 2/5

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Water repellents for silicate glasses

glasses were placed for 24 hours into a hydrostat with 70 % relative humidity. The silanes were applied by rubbing the moisture-conditioned glass unreace with a 10 % solution of the monomer in white spirit. Polymeric silicones were used in form of a paste prepared by mixing the 10 % solution in white spirit with diatomite washed in water. The paste contained 72 % diatomite. All tests were carried out after room temperature drying and following baking of the impregnated glass surface for 1 hour at 200°C. Results of the experiments (carried out in cooperation with V.N. Zeryukin) are shown in a table. It can be seen that the best results were obtained with dimethylsilane derivatives. Baking is essential only in the case of ethoxy- and phenyl-derivatives. High resistance of the water-repellent film is due to partial hydrolysis of the monomer by the surface moisture and grafting of the resulting polymer to the glass surface by covalent bonds. Among polymeric silicones the best water-repellent characteristic is shown by polymethyland polyethylhydrosiloxane which react with hydroxyl groups of the glass surface having an active hydrogen ion coupled to the silicon atom in the polysiloxane chain? The other polymeric silicones which do not have active functional groups adhere to the surface only through physical forces. Thus removal of surface moisture and baking after application are essential for these compounds. The pre-

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Water repellent for silicate glasses

sent results demonstrate also that the wetting angle is not a sufficient criterion in estimation of the durability of water-repellent films. Durability is determined not only by the chemical structure of the organosilicon film, but also by the firmness of the bond with the glass structure. The present tests made it possible to select water-repellent agents for a variety of purposes. There are 3 figures, 1 table and 26 references: 12 Soviet-bloc and 14 non-Soviet-bloc. The most important English-language references read as follows: R. R.Mc Gregor, Ind. Eng. Ch., 46, 2323 (1954); L. A. Spitze et al., J. Appl. Phys., 18, 904 (1947); Aircraft Eng., 30, 353, 217, (1958); M. J. Hunter et al, Ind. Eng. Chem., 39, 1389(1947).

SUBMITTED: June 23, 1960

Table: Water-repellent properties of glass prepared by various monomeric and polymeric organosilicon compounds. Legend: (1) water-repellent agent, (2) angle of wetting (in degrees), (3) angle at which the water begins to roll off (degree), (4) efficiency at the sprinkling test (hours), (5) until baking, (6) after baking (7) monomers, (8) product of partial hydrolysis of dimethyldichlorosilane, (9) product of partial hydrolysis of dimethyldiacetoxysilane, (10) polymers.

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Vinograpova, i.m., Norway, A.Va., Davysov, F.V., Auchengova, R.V.

Selection on emplication of communeation founds for leasening the methodics of plantics to hard surfaces. Plant, massy and 17:100 (MIRA 17:10)

SPITSYN, Vikt.I., akademik; KOROLEV, A. Ya.; KULESHOV, I.M.; VINCGRADOVA, L.M. Prinimala uchastiye ARTAMONOVA, R.V.

Process of polishing aluminum studied by the radioactive tracer technique. Dokl. AN SSSR 159 no.42865-868 D 164 (MIRA 18:1)

1. Institut fizicheskoy khimii AN SSSR.

PARKRATOV, E.A.; VILOGRADOVA, L.M.

Maximum possible response of a selective optico-acoustic detector. Opt. i spektr. 7 no. 6:709-797 D 159. (HIRA 14:2) (Microphone) (Nuclear counters)

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Pankratov, H.A. and Vinogradova, L.m.

TITLE:

On the Maximum Possible Sensitivity of a Selective Optico-Acoustic ?

PERIODICAL: Optika i spektroskopiya, 1959, Vol 7, No 6, pp 789-797 (USSR)

ABSTRACT:

An optico-acoustic receiver consists of two main parts: a receiver chamber and a microphone. When a condenser or an electrodynamic microphone is used in the receiver the properties of the chamber cannot be separated from those of the microphone. On the other hand when an optical microphone is used in conjunction with a selective-receiver chamber, the properties of the chamber and those of the micropnone can be determined separately. It was for this reason that the authors used an optical microphone nown schematically in Fig 1. A receiver chamber (1) was filled with a gas which can absorb infrared radiation. Pulsations of the gas pressure, produced by a "pulsed" infrared beam, act on a celluloid membrane (2) coated with a specular layer of antimony. This membrane was used both as a chamber wall and a microphone more rane. An objective (3) was placed at a distance of 15 mm from the membrane. In the focal plane of the objective there was a glass raster (4) through which light from a source (6) was projected by a condenser (5) on to the membrane (2). The light was reflected from the membrane and after

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On the Maximum Possible Sensitivity of a Selective Optico-Acoustic Receiver

passing through the objective and the raster it was deviated by a mirror (7) on to a single-stage photomultiplier (9) of FEU-2 type. The construction of the chamber is shown in Fig 2. It consisted of a working space (1), a ring-shaped channel (2), a channel joining the working space and the region immediately behind the membrane (3), the membrane and its supporting ring (4), a compensation channel (5), an entry window (6), a window used to protect the membrane (7) and the chamber casing (8). Two chambers were constructed: one was cylindrical in shape (10 mm depth and 9.4 mm diameter), and the other was rectangular (6 x 7 mm cross-section and 3 mm depth). When filled with CO2 the cylindrical chamber had a time constant of 0.03 sec and the rectangular one - 0.003 sec. absorption of radiation emitted by a Hefner cladle (a selective source; amounted to 13% in the cylindrical chamber and 6% in the rectangular one. The rootmean-square noise at light-interruption frequency of 10 c/c was equivalent to a radiation flux of 3 x 10-9 W in the cylindrical chamber and  $8 \times 10^{-9}$  W in the restringular chamber. The noise decreased with increase of the light-interruption frequency (Fig 4). At low frequencies (10-15 c/s) an optical microphone made it possible to reach the sensitivity limit of the optico-accustic receiver, since the noise of the receiver was practically entirely due to the chamber noise. The cylindrical chamber had a lower sensitivity limit because of the smaller heat lesses and

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